CLAIMS:

1.   A method for editing a recorded data stream, comprising the steps of:
            receiving a frame number from a user interface for an edit point in the
recorded data stream selected by a user;
            calculating an expected presentation timestamp of the selected frame number;
5   adding a first predetermined value to the expected timestamp to form a first
time limit;
            subtracting the first predetermined value from the expected presentation
timestamp to form a second time limit, wherein the first and second time limits form a time
window; and
10   searching for the selected frame at the expected presentation timestamp on a
storage device using said time window.

2.   The method according to claim 1, wherein said second time limit is formed by
subtracting a second predetermined value from the expected presentation time.
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3.   The method according to claim 1, wherein the predetermined value is less than
half the frame period.

4.   The method according to claim 1, wherein said search step comprises the steps
20   of:
            searching for a CPI which contains a timestamp of the expected presentation
timestamp; and
            searching a location on the storage device identified by the CPI for an actual
timestamp which corresponds to the time window.
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5.   A method for recording and editing a data stream, comprising the steps of:
            receiving the data stream;
            parsing the data stream to find timestamps for each frame of the data stream;
            determining if the timestamp is correct;

correcting any timestamps which are incorrect.

6.   The method according to claim 5, further comprising the steps of:

          receiving a frame number from a user interface for an edit point in the
recorded data stream selected by a user;

               calculating an expected presentation timestamp of the selected frame number;

               searching for the expected presentation timestamp on a storage device.

7.   A method for recording and editing a data stream, comprising the steps of:

               receiving the data stream;

               parsing the data stream to find each CPI in the data stream;

               determining if the timestamps for frames of the data stream are correct in the
CPI;

               correcting any timestamps in the CPI which are incorrect.

8.   The method according to claim 7, further comprising the steps of

               receiving a frame number from a user interface for an edit point in the
recorded data stream selected by a user; _

               calculating an expected presentation timestamp of the selected frame number;
searching for the expected presentation timestamp in CPIs of the data stream.

9.   An apparatus for editing a recorded data stream, comprising:

               means for receiving a frame number from a user interface for an edit point in
the recorded data stream selected by a user;

               calculating means for calculating an expected presentation timestamp of the
selected frame number;

               means for adding a first predetermined value to the expected timestamp to
form a first time limit;

               means for subtracting the first predetermined value from the expected
presentation timestamp to form a second time limit, wherein the first and second time limits
form a time window; and

               means for searching for the selected frame at the expected presentation
timestamp on a storage device using said time window.

10.   The apparatus according to claim 9, wherein said second time limit is formed by subtracting a second predetermined value from the expected presentation time.

11.   The apparatus according to claim 9, wherein the predetermined value is less than half the frame period.

12.   The apparatus according to claim 9, further comprising:
         means for searching for a CPI which contains a timestamp of the expected presentation timestamp; and
         means for searching a location on the storage device identified by the CPI for an actual timestamp which corresponds to the time window.

13.   An apparatus for recording and editing a data stream, comprising:
         means for receiving the data stream;
         means for parsing the data stream to find timestamps for each frame of the data stream;
         means for determining if the timestamp is correct;
         means for correcting any timestamps which are incorrect.

14.   The apparatus according to claim 13, further comprising:
         means for receiving a frame number from a user interface for an edit point in the recorded data stream selected by a user;
         means for calculating an expected presentation timestamp of the selected frame number;
         means for searching for the expected presentation timestamp on a storage device.

15.   An apparatus for recording and editing a data stream, comprising:
         means for receiving the data stream;
         means for parsing the data stream to find each CPI in the data stream;
         means for determining if the timestamps for frames of the data stream are correct in the CPI;
         means for correcting any timestamps in the CPI which are incorrect.

16.   The apparatus according to claim 15, further comprising:

means for receiving a frame number from a user interface for an edit point in the recorded data stream selected by a user;

means for calculating an expected presentation timestamp of the selected

5   frame number;

means for searching for the expected presentation timestamp in CPIs of the data stream.